

F18. 1

Attorney Name: Alton Hornsby, III Phone No.: 404-954-5035 Sheet 2 of 10 34 RULE DESIGNER STATE OBJECTS MASS STORAGE DEVICE RULES ENGINE MODULE MODULE INPUT/OUTPUT CONTROLLER **OPERATING SYSTEM** PROGRAM FILE APPLICATION **PROGRAM** INTERFACE UNIT NETWORK NETWORK /91READ ONLY MEMORY RANDOM MEMORY MEMORY SYSTEM ACCESS **PROCESSING** CENTRAL UNIT

Docket No.: 60027.0304US01

Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating Business Rules During Runtime of a Computer Software Application Program

Phone No.: 404-954-5035 Sheet 3 of 10 START 300 CREATE RULE CATEGORY *30*5 SPECIFY A CURRENT RULE 310 SPECIFY A STATE OBJECT FOR 315 THE CURRENT RULE **DEFINE A RULE CONDITION** 320 **DEFINE A RULE ACTION** 325 330 LINK THE CONDITION WITH THE ACTION TO DEFINE A **BUSINESS RULE** 335 STORE BUSINESS RULE IN RULE CATEGORY MORE YES RULES? NO Fig. 3 **END**

Inventor. Scott Mutchler Docket No.: 60027.0304US01

Attorney Name: Alton Hornsby, III

Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating Business Rules During Runtime of a Computer Software Application Program

Docket No.: 60027.0304US01
Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating Business Rules During Runtime of a Computer Software Application Program Attorney Name: Alton Hornsby, III
Phone No.: 404-954-5035
Sheet 4 of 10

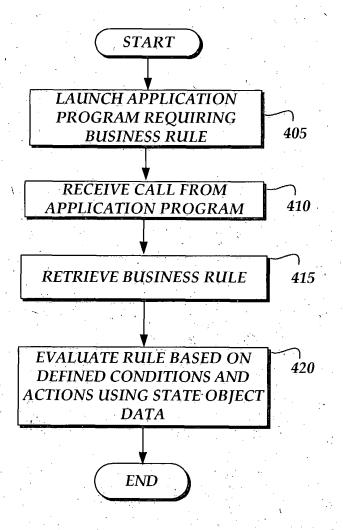


Fig. 4

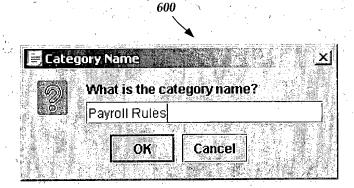
Docket No.: 60027.0304US01
Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating Business Rules During Runtime of a Computer Software Application Program Attorney Name: Alton Hornsby, III
Phone No.: 404-954-5035
Sheet 5 of 10

Failure Node Success Node Rules New Category... New Rule... New Pattern Condition... New SQL Condition... New Script Condition... W New Pattern Action... New SQL Action... New Script Action... X Delete ૦ ૦ RULE SUCCESS RULE FAILURE START

5**0**5

500

Fig. 5



Rule: Employee Raise Rule

Fig. 6



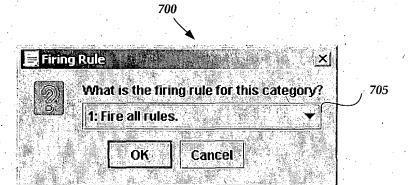


Fig. 7

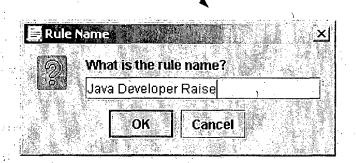


Fig. 8

Docket No.: 60027.0304US01

Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating Business Rules During Runtime of a Computer Software Application Program

Attorney Name: Alton Hornsby, III Phone No.: 404-954-5035 Sheet 7 of 10

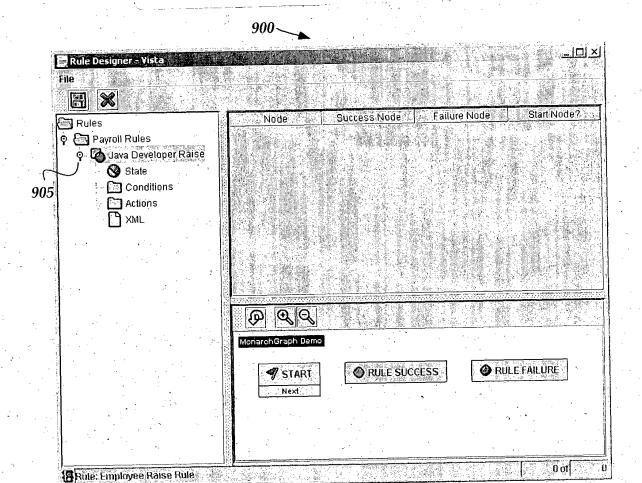


Fig. 9

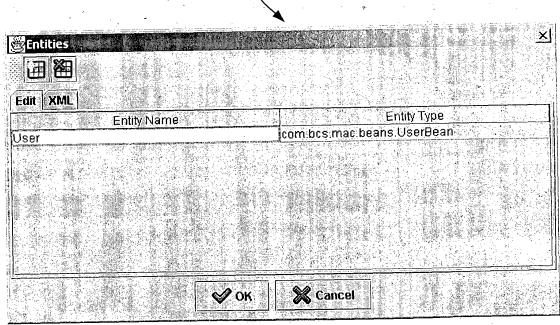


Fig. 10

Inventor. Scott Mutchler
Docket No.: 60027.0304US01
Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating
Business Rules During Runtime of a Computer Software Application Program
Attorney Name: Alton Hornsby, III
Phone No.: 404-954-5035
Sheet 8 of 10

1100

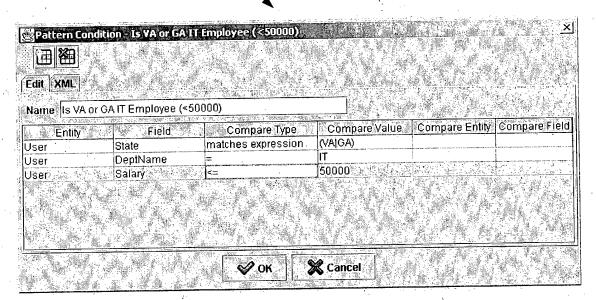


Fig. 11

1200

Edit XML

Name Is In Java Group

Returns 1 row

Value

SQL (use ? for parameters)

select * from user_groups where group_id = 'Java' and user_id = ?

SQL Parameters Entity Action

User | ID |

SQL Cancel

Fig. 12

Inventor. Scott Mutchter
Docket No.: 60027.0304US01
Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating
Business Rules During Runtime of a Computer Software Application Program
Attorney Name: Alton Hornsby, III
Phone No.: 404-954-5035
Sheet 9 of 10

1300

Patt	ern Action - Ch	ange Acct Group	00005	e Harri				لد
	2							
Edit X	(ML		TOTAL STATE					
Name	Change Acct	Group To 0105						
Entity	User		2.846 in					
Action	Update exist	ing entity in the :	state (
⊠ Sav	e changes to	database?			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	ield To Overlay		Value 🦾 🐇		Entity		Field	(E) 4 (E)
Account	ingGroup	0105				Ì		
							Trans.	
			. V ok	% c	ancel			

Fig. 13

Script - Give 10% Raise							×
Edit XML	2 23, 200 2 2 23, 200 2	pr 100 30 (154.75 174 244.175 174 244.181111					
Name Give 10% Raise		A Company		Check S	cript Syn	tax"	
。2011年,1921						rapidado desc	J-1364
* Give a 10% salary increase							
*They deserve more if you ask me! \ */					<i>e</i> *		
			, 5				
function performAction state {	•						• [
user = state.get('User'); user.setSalary(user.getSalary * 1.1);		-	• • • • • • • • • • • • • • • • • • • •				
}			. •				
Control of the contro			7 800 780	State A. Weller			
	Р ок	XX Car	icel				

Fig. 14

Docket No.: 60027.0304US01
Title: Methods, Systems and A Computer-Readable Medium for Defining and Evaluating
Business Rules During Runtime of a Computer Software Application Program
Attorney Name: Alton Hornsby, III
Phone No.: 404-954-5035

1500

Phone No.: 40-Sheet 10 of 10

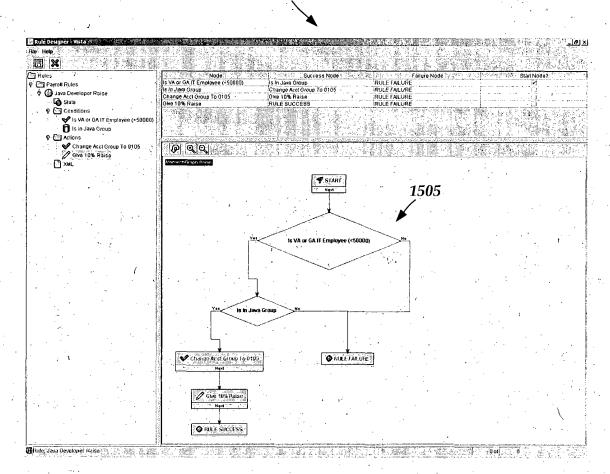


Fig. 15